

MATERIAL SAFETY DATA SHEET

MSDS

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Date Issued 09/19/1997
MSDS Ref No RPTM32418
Date Revised 11/21/1997
Revision No 1

Spa-Time Stain & Scale for Spas & Hot Tubs

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Spa-Time Stain & Scale for Spas & Hot Tubs
GENERAL USE Stain & scale control for spas and hot tubs
CHEMICAL FAMILY Phosphonates

MANUFACTURER

Recreational Water Products
Pool Time
PO Box 887
Scottsdale, GA 30079
Customer SERVICE (800) 949-7946

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300
Rocky Mountain (Medical) (303) 623-5716

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt %	CAS Registry #	EINECS #
2-phosphono-1,2,4-butanetricarboxylic acid	12.5	37971-36-1	253-733-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE

Clear, colorless to light yellow liquid

IMMEDIATE CONCERNS

DANGER Corrosive Causes skin and eye damage May be fatal if swallowed Do not get in eyes, on skin or on clothing Wear goggles or safety glasses and rubber gloves when handling this product May be irritating to nose and throat Avoid breathing vapors Remove and wash contaminated clothing before reuse Do not mix with other chemicals

POTENTIAL HEALTH EFFECTS

EYES

DANGER Corrosive Causes eye damage Do not get in eyes

SKIN

DANGER Corrosive Causes skin damage Do not get on skin

INGESTION

May be fatal if swallowed

INHALATION

May be irritating to nose and throat Avoid breathing vapors

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CHRONIC

There are no known chronic hazards

ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact

4. FIRST AID MEASURES

EYES

If contact with eyes occurs Immediately flush with cold water for at least 15 minutes Then get immediate medical attention

SKIN

If contact with skin Rinse off excess chemical and flush skin with cold water for at least 15 minutes If skin irritation develops, seek immediate medical attention

INGESTION

If swallowed Drink large amounts of water Do not induce vomiting Avoid alcohol NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON Call a physician or poison control center immediately

INHALATION

If inhaled Remove to fresh air If breathing is difficult, have trained person administer oxygen If not breathing, give artificial respiration Call a physician immediately

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD None to 212 F

AUTOIGNITION TEMPERATURE 500°C (932°F)

GENERAL HAZARD

There are no unusual fire and explosion hazards known

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Water

FIRE FIGHTING EQUIPMENT

Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA) Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident

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6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Utilizing appropriate clothing and safety equipment, contain spill material. Cover the liquid with an inert absorbent. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal. Dispose of according to local, state and federal regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES

Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

HANDLING

Mix only with water. Never add water to product. Always add product to large quantities of water. Do not mix with other chemicals. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.

STORAGE

Keep this product in its original container when not in use. Store in cool, dry, well-ventilated area. Keep this product and all other chemicals out of children's reach.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SUPPLIER OEL	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
2-phosphono-1,2,4-butanetricarboxylic acid	TWA	N/E ¹		N/E			

OSHA TABLE COMMENTS

1 N/E = Not Established

ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to minimize exposure to vapors.

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PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE

Wear goggles or safety glasses with side shields when handling this product

SKIN

Wear rubber gloves when handling this product Avoid contact with skin

RESPIRATORY

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use

WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse

OTHER USE PRECAUTIONS

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid

ODOR Odorless

APPEARANCE Clear

COLOR Colorless to light yellow

pH <3.5

SOLUBILITY IN WATER Miscible in Water

SPECIFIC GRAVITY 1.06 g/ml

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID

High temperature Poor ventilation Contamination

STABILITY

This product is stable under normal conditions

POLYMERIZATION

Hazardous polymerization will not occur under normal conditions

HAZARDOUS DECOMPOSITION PRODUCTS

Phosphoric acid, carbon monoxide, carbon dioxide and other unidentified by-products

INCOMPATIBLE MATERIALS

Other swimming pool/spa chemicals in their concentrated forms Bases Strong alkalis

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11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀ >6500 mg/kg of body weight in rats

EYE EFFECTS

This product is corrosive to eyes

SKIN EFFECTS

This product is corrosive to skin

CARCINOGENICITY

This product is not listed as a carcinogen by IARC

This product is not listed as a carcinogen by NTP

This product is not listed as a carcinogen by OSHA

MUTAGENICITY

Mutagenicity studies were negative

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

PRODUCT DISPOSAL

Disposal of unused, uncontaminated product is regulated according to local, state and federal regulations.

EMPTY CONTAINER

Do not reuse container. Rinse thoroughly before discarding in trash.

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14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME Corrosive Liquids, N O S (Contains Phosphonic Acid)
PRIMARY HAZARD CLASS/DIVISION 8
UNNA NUMBER 1760
PACKING GROUP III
OTHER SHIPPING INFORMATION Limited Quantity

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
313 REPORTABLE INGREDIENTS: This product or its components are not listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
CERCLA REGULATORY: This product or its components are not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA REGULATORY: This product or its components are not subject to export notification
TSCA STATUS: This product or its components are listed on the TSCA Inventory

OSHA HAZARD COMM RULE
Product is hazardous by definition of the Hazardous Communication Standard

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT)
This product is not a registered pesticide

16. OTHER INFORMATION

REVISION SUMMARY

Revision # 1

This MSDS replaces the September 19, 1997 MSDS. Any changes in information are as follows:

NFPA CODES

HEALTH 3 FIRE 0 REACTIVITY 0

HMIS CODES

HEALTH 3 FIRE 0 REACTIVITY 0 PROTECTION B

MANUFACTURER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.
